

Abstract

Purpose

A biomass gasification system and operating method thereof are able to prevent hindrances caused by the tar component in a fuel gas and to thermally utilize a fuel gas containing a tar component.

Means

A gas reforming tower 4, able to thermally crack the tar component in a fuel gas by increasing the temperature thereof to a process temperature, is connected to a gas supply system 3, which routes a biomass-source fuel gas generated by a gasification furnace 1, to a utilization system 2. Fuel gas from the gas reforming tower is routed through a fuel gas induction system 5 to the gasification furnace for use as fuel therein during the time required for the gas reforming tower to attain the process temperature.